

Signal and Imaging Sciences Workshop

A workshop for LLNL, UC community personnel, and others to share accomplishments, ideas, and areas of need in the Signal, Imaging, and Communications Sciences. We are soliciting 15-minute presentations for the workshop.

November 15 – 16, 2007

at Lawrence Livermore National Laboratory, B482 Auditorium

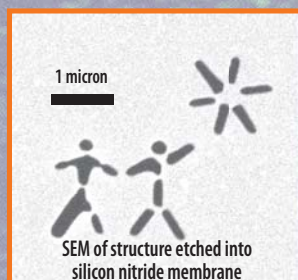
Keynote Speaker

Prof. Rudolf Kalman

Call for ABSTRACTS

Titles and Abstracts due by October 5, 2007

Registration form on reverse side or go to CASIS website: (<http://casis.llnl.gov/>) for more info and to download an electronic copy of the registration form.



Above right is the fastest diffraction-limited image ever reconstructed. (The diffraction pattern that generated this result is the background image.) Using coherent x-rays ($32 \text{ nm}\lambda$) from the 30-fs FLASH free-electron laser in Hamburg, the sample structure (etched into a silicon nitride membrane; SEM image at left) was completely destroyed by the imaging pulse at 30 trillion W/cm^2 . The program goal is to observe fs-scale processes down to the resolution of individual molecules.

Image Credit: Henry Chapman, LLNL; et al, Nature Physics (Dec 2006) and Nature (Aug 2007).

For technical information:

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Sponsored by the LLNL Engineering Directorate and the Center for Advanced Signal and Image Sciences (CASIS)

